## SEQUENCE LISTING

5	(1) GENERAL INFORMATION:
10	(i) APPLICANT: Ballinger, Marcus D. Jones, Jennifer T. Fairbrother, Wayne J. Sliwkowski, Mark X. Wells, James A. Genentech, Inc.
	(ii) TITLE OF INVENTION: HEREGULIN VARIANTS
15	(iii) NUMBER OF SEQUENCES: 92
20	<ul> <li>(iv) CORRESPONDENCE ADDRESS:</li> <li>(A) ADDRESSEE: Skjerven, Morrill, MacPherson, et al.</li> <li>(B) STREET: 25 Metro Drive, Suite 700</li> <li>(C) CITY: San Jose</li> <li>(D) STATE: California</li> <li>(E) COUNTRY: USA</li> <li>(F) ZIP: 95110</li> </ul>
25	<ul> <li>(v) COMPUTER READABLE FORM:</li> <li>(A) MEDIUM TYPE: Floppy disk</li> <li>(B) COMPUTER: IBM PC compatible</li> <li>(C) OPERATING SYSTEM: PC-DOS/MS-DOS</li> </ul>
30	(D) SOFTWARE: PatentIn Release #1.0, Version #1.30
	<ul><li>(vi) CURRENT APPLICATION DATA:</li><li>(A) APPLICATION NUMBER: Pending</li><li>(B) FILING DATE: 10-FEB-1998</li></ul>
35	<ul><li>(vii) PRIOR APPLICATION DATA:</li><li>(A) APPLICATION NUMBER: 08/799,054</li><li>(B) FILING DATE: 10-FEB-1997</li><li>(C) CLASSIFICATION:</li></ul>
40	<pre>(viii) ATTORNEY/AGENT INFORMATION:</pre>
45	(ix) TELECOMMUNICATION INFORMATION:  (A) TELEPHONE: (408) 453-9200  (B) TELEFAX: (408) 453-7979
50	(2) INFORMATION FOR SEQ ID NO:1:
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 71 amino acids

(B) TYPE: amino acid

5	(ii) MOLECULE TYPE: protein												
	(iii) HYPOTHETICAL: NO												
10	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>												
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:												
15	Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asr 1 5 10 15												
	Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr 20 25 30												
20	Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr 35 40 45												
25	Val Met Ala Ser Phe Tyr Lys His Leu Gly Ile Glu Phe Met Glu Ala 50 55 60												
	Glu Glu Leu Tyr Gln Lys Arg 65 70												
30	(2) INFORMATION FOR SEQ ID NO:2:												
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 66 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>												
	(ii) MOLECULE TYPE: protein												
40	(iii) HYPOTHETICAL: NO												
40	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>												
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:												
	Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asr 1 5 10 15												
50	Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tys 20 25 30												
	Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys Thr Glu Ass 35 40 45												

(C) STRANDEDNESS: not relevant
(D) TOPOLOGY: not relevant

Val Pro Met Lys Val Gln Asn Gln Glu Lys Ala Glu Glu Leu Tyr Gln 50 5 Lys Arg (2) INFORMATION FOR SEQ ID NO:3: 10 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant 15 (ii) MOLECULE TYPE: protein (iii) HYPOTHETICAL: NO 20 (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3: 25 Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr 30 25 Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Met Ala Ser Phe Tyr Lys Ala Glu Glu Leu Tyr Gln Lys Arg 35 (2) INFORMATION FOR SEQ ID NO:4: 40 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant 45 (ii) MOLECULE TYPE: protein (iii) HYPOTHETICAL: NO 50 (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr 10 Val Met Ala Ser Phe Tyr Ser Thr Ser Thr Pro Phe Leu Ser Leu Pro 55 Glu 15 65 (2) INFORMATION FOR SEQ ID NO:5: (i) SEQUENCE CHARACTERISTICS: .20 (A) LENGTH: 66 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant 25 (ii) MOLECULE TYPE: protein (iii) HYPOTHETICAL: NO (vi) ORIGINAL SOURCE: 30 (A) ORGANISM: Rattus rattus (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5: 35 Ser His Leu Ile Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn 1 5 Gly Glu Cys Phe Thr Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr 25 40 Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys Thr Glu Asn 35 45 Val Pro Met Lys Val Gln Thr Gln Glu Lys Ala Glu Glu Leu Tyr Gln 45 50 Lys Arg 65 50 (2) INFORMATION FOR SEQ ID NO:6: (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 71 amino acids(B) TYPE: amino acid

			TRANDEDN OPOLOGY:								
_	(ii)	) MOLECU	LE TYPE:	prote	in						
5	(iii)	) HYPOTH	ETICAL: 1	МО							
10	(vi)		AL SOURCE		s rattı	us					
	(xi)	SEQUEN	CE DESCR	IPTION	: SEQ	ID NO:6	:				
15	Ser His	Leu Ile	Lys Cys 5	Ala G	lu Lys	Glu Ly 10	s Thr	Phe	Cys	Val 15	Asn
	Gly Gly	Glu Cys 20	Phe Thr	Val Ly	ys Asp 25	Leu Se	r Asn	Pro	Ser 30	Arg	Tyr
20	Leu Cys	Lys Cys 35	Pro Asn	Glu Pi		Gly As	p Arg	Cys 45	Gln	Asn	Tyr
25	Val Met 50	Ala Ser	Phe Tyr	Lys H	is Leu	Gly Il	e Glu 60	Phe	Met	Glu	Ala
23	Glu Glu 65	Leu Tyr	Gln Lys 70	Arg							
30			FOR SEQ								
35	(1/	(A) L (B) T (C) S	ENGTH: 6: YPE: amin TRANDEDNI OPOLOGY:	3 amino no acio ESS: no	o acida i ot rele	evant					
	(ii)	MOLECU	LE TYPE:	prote:	in						
40			ETICAL: 1								
	(V1)		AL SOURCE		s ratti	us					
45	(xi)	SEQUEN	CE DESCR	IPTION	: SEQ	ID NO:7	:				
	Ser His	Leu Ile	Lys Cys 5	Ala G	lu Lys	Glu Ly 10	s Thr	Phe	Cys	Val 15	Asn
50	Gly Gly	Glu Cys 20	Phe Thr	Val Ly	ys Asp 25	Leu Se	r Asn	Pro	Ser 30	Arg	Туг
	Leu Cys	Lys Cys	Pro Asn	Glu Pl		Gly As	p Arg	Cys 45	Gln	Asn	Tyr

Val Met Ala Ser Phe Tyr Lys Ala Glu Glu Leu Tyr Gln Lys Arg 55 (2) INFORMATION FOR SEQ ID NO:8: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant 10 (D) TOPOLOGY: not relevant (ii) MOLECULE TYPE: protein (iii) HYPOTHETICAL: NO 15 (vi) ORIGINAL SOURCE: (A) ORGANISM: Rattus rattus 20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: Ser His Leu Ile Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn Gly Gly Glu Cys Phe Thr Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr 25 25 Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys Thr Glu Asn 30 35 Val Pro Met Phe Tyr Ser Thr Ser Thr Pro Phe Leu Ser Leu Pro Glu 55 50 35 (2) INFORMATION FOR SEQ ID NO:9: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 amino acids (B) TYPE: amino acid 40 (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant (ii) MOLECULE TYPE: protein 45 (iii) HYPOTHETICAL: NO (vi) ORIGINAL SOURCE: (A) ORGANISM: Rattus rattus 50

Ser His Leu Ile Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

	1		5			10					15			
5	Gly Gly	Glu Cys 20	Phe Thr	Val Lys	Asp 25	Leu	Ser	Asn	Pro	Ser 30	Arg	Tyr		
3	Leu Cys	Lys Cys 35	Gln Pro	Gly Phe	e Thr	Gly	Ala	Arg	Cys 45	Thr	Glu	Asn		
10	Val Pro 50	Met Phe	Tyr Ser	Met Thi	s Ser	Arg	Arg	Lys 60	Arg	Gln	Glu	Thr		
	Glu Lys 65	Pro Leu	Glu Arg 70	Lys Let	ı Phe	His	Ser 75	Leu	Val	Lys	Glu	Ser 80		
15	Lys													
	(2) INF	ORMATION	FOR SEQ	ID NO:	LO:									
20	(i	(B) T	ENGTH: 6 YPE: ami	5 amino no acid	acid									
25	(C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant													
	(ii	) MOLECU	LE TYPE:	proteir	1									
	(iii) HYPOTHETICAL: NO													
30	(Vi	) ORIGIN (A) O	AL SOURC RGANISM:		apiens	5								
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:													
33	Ser His	Leu Val	Lys Cys 5	Ala Glu	l Lys	Glu 10	Lys	Thr	Phe	Cys	Val 15	Asn		
40	Gly Gly	Glu Cys 20	Phe Met	Val Lys	Asp 25	Leu	Ser	Asn	Pro	Ser 30	Arg	Tyr		
	Leu Cys	Lys Cys 35	Pro Asn	Glu Phe	e Thr	Gly	Asp	Arg	Cys 45	Gln	Asn	Tyr		
45	Val Met 50	Ala Ser	Phe Tyr	Ser Thi	ser	Thr	Pro	Phe 60	Leu	Ser	Leu	Pro		
50	Glu 65													
20	(2) INF	ORMATION	FOR SEQ	ID NO:	L1:									
	(i	) SEQUEN	CE CHARA	CTERIST:	cs:									

(A) LENGTH: 65 amino acids

	(D) TOPOLOGY: not relevant
5	(ii) MOLECULE TYPE: protein
	(iii) HYPOTHETICAL: NO
10	(vi) ORIGINAL SOURCE:
10	(A) ORGANISM: Homo sapiens
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
15	Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
	Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
20	20 25 30
20	Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr 35 40 45
25	Val Met Ala Ser Phe Tyr Ser Thr Ser Thr Pro Phe Leu Ser Leu Pro 50 55 60
	Glu 65
30	(2) INFORMATION FOR SEQ ID NO:12:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 amino acids
35	(B) TYPE: amino acid (C) STRANDEDNESS: not relevant
	(D) TOPOLOGY: not relevant
	(ii) MOLECULE TYPE: protein
40	(iii) HYPOTHETICAL: NO
	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens
45	(xi) SEQUENCE DESCRIPTION: SEO ID NO:12:
	Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
50	1 5 10 15
~ *	Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr 20 25 30
	Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr

(B) TYPE: amino acid(C) STRANDEDNESS: not relevant

		35		40				45					
5	Val Met 50	Ala Ser	Phe Tyr	Ser Th	r Ser	Thr Pro	Phe 60	Leu	Ser	Leu	Pro		
3	Glu 65												
10	(2) INF	ORMATION	FOR SEQ	ID NO:	13:								
10	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 71 amino acids</li><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: not relevant</li></ul>												
15			OPOLOGY:										
	(ii	) MOLECU	LE TYPE:	protein	1								
20	(iii	) НҮРОТН	ETICAL: 1	10									
	(vi		AL SOURCE RGANISM:		domes	ticus							
25	(xi	) SEQUEN	CE DESCRI	IPTION:	SEQ I	D NO:13	:						
	Ser His	Leu Thr	Lys Cys 5	Asp Ile	e Lys	Gln Lys 10	Ala	Phe	Cys	Val 15	Asn		
30	Gly Gly	Glu Cys 20	Tyr Met	Val Ly:	Asp 25	Leu Pro	Asn	Pro	Pro 30	Arg	Tyr		
35	Leu Cys	Lys Cys 35	Pro Asn	Glu Phe 40	e Thr	Gly Asp	Arg	Cys 45	Gln	Asn	Туг		
	Val Met 50	Ala Ser	Phe Tyr	Lys His	s Leu	Gly Ile	Glu 60	Phe	Met	Glu	Ala		
40	Glu Glu 65	Leu Tyr	Gln Lys 70	Arg									
	(2) INF	ORMATION	FOR SEQ	ID NO:	L4:								
45	(i	(A) LI (B) T (C) S	CE CHARAC ENGTH: 49 YPE: amin TRANDEDNE OPOLOGY:	e amino no acid ESS: not	acids rele	vant							
50	(ii	) MOLECU	LE TYPE:	peptide	e								
	(iii	) HYPOTH	ETICAL: 1	10									

(vi) ORIGINAL SOURCE:

## (A) ORGANISM: Not relevant (recombinant)

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:												
5	Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn 1 5 10 15												
10	Gly Glu Cys Phe Met Val Lys Asp Pro Ser Arg Tyr Leu Cys Lys 20 25 30												
	Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Met Ala 35 40 45												
15	Ser												
	(2) INFORMATION FOR SEQ ID NO:15:												
20	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 48 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant												
25	(D) TOPOLOGY: not relevant  (ii) MOLECULE TYPE: peptide												
	(iii) HYPOTHETICAL: NO												
30	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>												
<b>5</b> E	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:												
35	Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His 1 10 15												
40	Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn 20 25 30												
	Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Arg 35 40 45												
45	(2) INFORMATION FOR SEQ ID NO:16:												
50	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 49 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>												

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

5	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:
10	Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn 1 5 10 15
15	Gly Gly Glu Cys Phe Met Val Lys Asp Pro Ser Arg Tyr Leu Cys Lys 20 25 30
13	Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Ile Ala 35 40 45
20	Ser
	(2) INFORMATION FOR SEQ ID NO:17:
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 52 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>
30	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO
35	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
40	Trp Glu Leu Val Pro Cys Gly Trp Asp Arg Glu Gly Phe Cys Val Asn 1 5 10 15
45	Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr 20 25 30
	Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr 35 40 45
50	Val Ile Ala Ser 50
	(2) INFORMATION FOR SEQ ID NO:18:
	(i) SEQUENCE CHARACTERISTICS:

	<ul><li>(A) LENGTH: 49 amino acids</li><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: not relevant</li><li>(D) TOPOLOGY: not relevant</li></ul>												
5	(ii) MOLECULE TYPE: peptide												
	(iii) HYPOTHETICAL: NO												
10	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>												
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:												
	Trp Glu Leu Val Pro Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn 1 5 10 15												
20	Gly Gly Glu Cys Tyr Lys Val Arg Ile Tyr Gly Tyr Leu Met Cys Lys 20 25 30												
	Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Ile Ala 35 40 45												
25	Ser												
	(2) INFORMATION FOR SEQ ID NO:19:												
30	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 49 amino acids</li><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: not relevant</li></ul>												
35	(D) TOPOLOGY: not relevant												
	(ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO												
40	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>												
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:												
-	Trp Glu Leu Val Pro Cys Gly Trp Asp Arg Glu Gly Phe Cys Val Asn 1 5 10 15												
50	Gly Glu Cys Tyr Lys Val Arg Ile Tyr Gly Tyr Leu Met Cys Lys 20 25 30												
	Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Ile Ala 35 40 45												

(2) INFORMATION FOR SEQ ID NO:20:

Ser

5

10	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 49 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant											
10	(D) TOPOLOGY: not relevant  (ii) MOLECULE TYPE: peptide											
	• •											
15	(iii) HYPOTHETICAL: NO											
	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>											
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:											
	Trp Glu Leu Val Pro Cys Gly Trp Asp Arg Glu Gly Phe Cys Val As 1 5 10 15											
25	Gly Gly Glu Cys Tyr Lys Val Arg Ile Tyr Arg Tyr Arg Met Cys Ly 20 25 30											
30	Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Ile Al 35 40 45											
	(2) INFORMATION FOR SEQ ID NO:21:											
35	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 49 amino acids											
40	<ul><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: not relevant</li><li>(D) TOPOLOGY: not relevant</li></ul>											
	(ii) MOLECULE TYPE: peptide											
45	(iii) HYPOTHETICAL: NO											
	(vi) ORIGINAL SOURCE:  (A) ORGANISM: Not relevant (recombinant)											
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:											
	Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val As 1 5 10 15											

Gly Glu Cys Phe Met Val Lys Asp Tyr Gly Tyr Leu Met Cys Lys 20 Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Ile Ala 5 40 Ser 10 (2) INFORMATION FOR SEQ ID NO:22: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 amino acids (B) TYPE: amino acid 15 (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant (ii) MOLECULE TYPE: peptide 20 (iii) HYPOTHETICAL: NO (vi) ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant) 25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22: Ser His Leu Val Lys Cys Gly Glu Glu Arg Glu Gly Phe Cys Val Asn 30 Gly Gly Glu Cys Tyr Arg Val Lys Thr Leu Ser Asn Pro Ser Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr 35 40 Val Met Ala Ser 50 40 (2) INFORMATION FOR SEQ ID NO:23: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 49 amino acids (B) TYPE: amino acid 45 (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant (ii) MOLECULE TYPE: peptide 50 (iii) HYPOTHETICAL: NO (vi) ORIGINAL SOURCE:

(A) ORGANISM: Not relevant (recombinant)

5	Ser 1	His	Leu	Val	Lys 5	Cys	Gly	Glu	Glu	Arg 10	Glu	Gly	Phe	Cys	Val 15	Asn
	Gly	Gly	Glu	Cys 20	Phe	Met	Val	Lys	Asp 25	Tyr	Gly	Tyr	Leu	Met 30	Cys	Lys
10	Cys	Pro	Asn 35	Glu	Phe	Thr	Gly	Asp 40	Arg	Сув	Gln	Asn	Tyr 45	Val	Met	Ala
	Ser															
15	(2)	INF	ORMA!	rion	FOR	SEQ	ID 1	NO:24	1:							
20		(i)	() (1	QUENC A) Li B) T? C) S? O) TO	engti YPE : Trani	4: 4: amin DEDNI	9 am: no ac ESS:	ino a cid not	rele	evant						
25				LECUI POTHI				tide								
30		(vi)		IGINA A) OI				rele	evant	t (re	ecomi	oina	nt)			
		(xi)	) SE	QUEN	CE DI	ESCR:	IPTI	: : MC	SEQ :	ID N	0:24	:				
35	Ser 1	His	Leu	Val	Lys 5	Cys	Gly	Glu	Glu	Arg 10	Glu	Gly	Phe	Cys	Val 15	Asn
	Gly	Gly	Glu	Cys 20	Tyr	Arg	Val	Lys	Thr 25	Tyr	Gly	Tyr	Leu	Met 30	Cys	Lys
40	Cys	Pro	Asn 35	Glu	Phe	Thr	Gly	Asp 40	Arg	Cys	Gln	Asn	Tyr 45	Val	Met	Ala
	Ser															
45	(2)	INF	ÓRMA'	гіои	FOR	SEQ	ID :	NO:2	5:							
50		(i	() ()	QUENCA) Li B) T C) S' D) T	engt: YPE : TRAN	H: 5: ami: DEDN	2 am no a ESS:	ino : cid not	rel	evan	t					

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

5	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:
	(XI) SEQUENCE DESCRIPTION: SEQ ID NO.23:
10	Ser His Leu Val Lys Cys Gly Glu Glu Arg Glu Gly Phe Cys Val Asr 1 5 10 15
a.c.	Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Typ 20 25 30
15	Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr 35 40 45
20	Val Ile Ala Ser 50
	(2) INFORMATION FOR SEQ ID NO:26:
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 49 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>
30	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO
35	(vi) ORIGINAL SOURCE:  (A) ORGANISM: Not relevant (recombinant)
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:
40	Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asr 1 5 10 15
45	Gly Gly Glu Cys Tyr Arg Val Lys Thr Tyr Gly Tyr Leu Met Cys Lys 20 25 30
40	Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Met Ala 35 40 45
50	Ser
	(2) INFORMATION FOR SEQ ID NO:27:

(i) SEQUENCE CHARACTERISTICS:

	<ul><li>(A) LENGTH: 49 amino acids</li><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: not relevant</li><li>(D) TOPOLOGY: not relevant</li></ul>
5	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO
10	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:
	Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn 1 5 10 15
20	Gly Glu Cys Tyr Arg Val Lys Thr Tyr Gly Tyr Leu Met Cys Lys 20 25 30
25	Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Ile Ala 35 40 45
25	Ser
30	(2) INFORMATION FOR SEQ ID NO:28:
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 52 amino acids</li><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: not relevant</li></ul>
35	(D) TOPOLOGY: not relevant
	(ii) MOLECULE TYPE: peptide
40	(iii) HYPOTHETICAL: NO
	<pre>(vi) ORIGINAL SOURCE:    (A) ORGANISM: Not relevant (recombinant)</pre>
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:
	Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn 1 5 10 15
50	Gly Glu Cys Tyr Arg Val Lys Thr Leu Ser Asn Pro Ser Arg Tyr 20 25 30
	Leu Cvc Lvc Cvc Pro Acn Clu Phe Thr Clv Acn Arc Cvc Cln Acn Twr

35

Val Ile Ala Ser

50

```
50
 5
     (2) INFORMATION FOR SEQ ID NO:29:
          (i) SEQUENCE CHARACTERISTICS:
               (A) LENGTH: 52 amino acids
10
               (B) TYPE: amino acid
               (C) STRANDEDNESS: not relevant
               (D) TOPOLOGY: not relevant
         (ii) MOLECULE TYPE: peptide
15
        (iii) HYPOTHETICAL: NO
         (vi) ORIGINAL SOURCE:
               (A) ORGANISM: Not relevant (recombinant)
20
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:
25
     Ser His Leu Val Lys Cys Gly Glu Glu Arg Glu Gly Phe Cys Val Asn
     Gly Glu Cys Tyr Arg Val Lys Thr Leu Ser Asn Pro Ser Arg Tyr
30
     Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
             35
     Val Ile Ala Ser
35
         50
     (2) INFORMATION FOR SEQ ID NO:30:
          (i) SEQUENCE CHARACTERISTICS:
40
               (A) LENGTH: 49 amino acids
               (B) TYPE: amino acid
               (C) STRANDEDNESS: not relevant
               (D) TOPOLOGY: not relevant
45
         (ii) MOLECULE TYPE: peptide
        (iii) HYPOTHETICAL: NO
         (vi) ORIGINAL SOURCE:
```

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

-115-

(A) ORGANISM: Not relevant (recombinant)

	Ser Hi	s Leu	Val	Lys 5	Cys	Gly	Glu	Glu	Arg 10	Glu	Gly	Phe	Cys	Val 15	Asn
5	Gly Gl	y Glu	Cys 20	Phe	Met	Val	Lys	Asp 25	Tyr	Gly	Tyr	Leu	Met 30	Cys	Lys
10	Cys Pr	o Asn 35	Glu	Phe	Thr	Gly	Asp 40	Arg	Cys	Gln	Asn	Tyr 45	Val	Ile	Ala
	Ser														
15		FORMA													
	,	(	QUEN A) Li B) T C) S	ENGTI YPE :	H: 49 amir	am:	ino a	acids		<u>.</u>					
20			D) T					evant	:						
		i) MO					cide								
25	(iii) HYPOTHETICAL: NO														
	(V	i) OR (	A) O				rele	evant	: (re	econi	oinar	ıt)		,	
30	(x	i) SE	QUEN	CE DI	ESCR:	[PTIC	ON: S	SEQ :	ID NO	0:31	:				
35	Ser Hi l	s Leu	Val	Lys 5	Cys	Gly	Glu	Glu	Arg 10	Glu	Gly	Phe	Cys	Val 15	Asn
	Gly Gl	y Glu	Cys 20	Tyr	Arg	Val	Lys	Thr 25	Tyr	Gly	Tyr	Leu	Met 30	Cys	Lys
40	Cys Pr	o Asn 35	Glu	Phe	Thr	Gly	Asp 40	Arg	Cys	Gln	Asn	Tyr 45	Val	Ile	Ala
	Ser														
45	(2) IN	FORMA	TION	FOR	SEQ	ID 1	NO:32	2:			=	_			
50	(	(	A) L B) T	ENGT YPE :	H: 49	9 am:	ino a	acida							
50			C) S' D) T							t					

-116-

(ii) MOLECULE TYPE: peptide

	(iii) HYPOTHETICAL: NO
	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>
5	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:
10	Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn 10 15
	Gly Glu Cys Tyr Arg Val Lys Thr Tyr Gly Tyr Leu Met Cys Lys 20 25 30
15	Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln His Tyr Val Ile Ala 35 40 45
20	Ser
	(2) INFORMATION FOR SEQ ID NO:33:
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 49 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>
30	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO
35	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant) .</pre>
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:
40	Ser His Leu Val Lys Cys Gly Glu Glu Arg Glu Gly Phe Cys Val Asr
45	
	Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln His Tyr Val Ile Al. 35 40 45
50	Ser
	(2) INFORMATION FOR SEQ ID NO:34:

5	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 4 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant
	(ii)	MOLECULE TYPE: peptide
10	(iii)	HYPOTHETICAL: NO
10	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)
15	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:34:
20	Gly 1	Gly Gly Ser
20	(2) INFO	RMATION FOR SEQ ID NO:35:
25	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 7 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant
2.0	(ii)	MOLECULE TYPE: peptide
30	(iii)	HYPOTHETICAL: NO
35	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:35:
40		Gly Gly Ser Gly Gly Gly 5
	(2) INFO	RMATION FOR SEQ ID NO:36:
45	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 5 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant
50	(ii)	MOLECULE TYPE: peptide
	(iii)	HYPOTHETICAL: NO

	• •	A) ORGANISM: Not relevant (recombinant)
5	(xi) SE(	QUENCE DESCRIPTION: SEQ ID NO:36:
10	Thr Arg	g Asp Lys Thr 5
	(2) INFORMA	FION FOR SEQ ID NO:37:
15	(1 (1 (0	QUENCE CHARACTERISTICS:  A) LENGTH: 5 amino acids  B) TYPE: amino acid  C) STRANDEDNESS: not relevant  D) TOPOLOGY: not relevant
20	(ii) MOI	LECULE TYPE: peptide
20	(iii) HY	POTHETICAL: NO
25	• •	IGINAL SOURCE: A) ORGANISM: Not relevant (recombinant)
	(xi) SE(	QUENCE DESCRIPTION: SEQ ID NO:37:
30	Asp Asp 1	o Asp Asp Lys 5
	(2) INFORMA	TION FOR SEQ ID NO:38:
35	(1	QUENCE CHARACTERISTICS:  A) LENGTH: 5 amino acids  B) TYPE: amino acid  C) STRANDEDNESS: not relevant
40	•	D) TOPOLOGY: not relevant
40	(ii) MO	LECULE TYPE: peptide
	(iii) HY	POTHETICAL: NO
45		IGINAL SOURCE: A) ORGANISM: Homo sapiens
50	(xi) SE	QUENCE DESCRIPTION: SEQ ID NO:38:
	Ser Hi	s Leu Val Lys 5

	(2) INFORMATION FOR SEQ ID NO:39:
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 5 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>
10	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO
15	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:
20	Trp Arg Leu Val Pro 1 5
	(2) INFORMATION FOR SEQ ID NO:40:
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 5 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>
30	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO
35	<pre>(vi) ORIGINAL SOURCE:      (A) ORGANISM: Not relevant (recombinant)</pre>
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:
	Trp Ser Leu Gln Pro 1 5
45	(2) INFORMATION FOR SEQ ID NO:41:
50	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 5 amino acids</li><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: not relevant</li></ul>
	(D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: peptide

	(iii)	HYPOTHETICAL: NO
5	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:41:
10	Trp 1	Glu Leu Val Pro 5
	(2) INFOR	RMATION FOR SEQ ID NO:42:
15	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 5 amino acids  (B) TYPE: amino acid
		<ul><li>(C) STRANDEDNESS: not relevant</li><li>(D) TOPOLOGY: not relevant</li></ul>
20	(ii)	MOLECULE TYPE: peptide
	(iii)	HYPOTHETICAL: NO
25	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)
30	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:42:
	Trp 1	Ser Leu Val Lys 5
35	(2) INFO	RMATION FOR SEQ ID NO:43:
40	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 5 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant
	(ii)	MOLECULE TYPE: peptide
45	(iii)	HYPOTHETICAL: NO
	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)
50		
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:43:
		Com Lou Tie Dwo

5

1 (2) INFORMATION FOR SEQ ID NO:44:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 5 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: not relevant

(D) TOPOLOGY: not relevant

10 (ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE: 15

(A) ORGANISM: Not relevant (recombinant)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:44: 20

Trp Arg Leu Val Ala

(2) INFORMATION FOR SEQ ID NO:45: 25

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 5 amino acids .
- (B) TYPE: amino acid
- (C) STRANDEDNESS: not relevant 30
  - (D) TOPOLOGY: not relevant
  - (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO 35
  - (vi) ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)

40

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

Trp Ala Leu Val Pro

(2) INFORMATION FOR SEQ ID NO:46:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 5 amino acids 50

(B) TYPE: amino acid

(C) STRANDEDNESS: not relevant

(D) TOPOLOGY: not relevant

	(11)	Noneona IIIa. peptide
	(iii)	HYPOTHETICAL: NO
5	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)
10	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:46:
	Trp 1	Ser Leu Gln Lys 5
15	(2) INFO	RMATION FOR SEQ ID NO:47:
20	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 5 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant
	(ii)	MOLECULE TYPE: peptide
25	(iii)	HYPOTHETICAL: NO
	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)
30		
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:47:
35	Trp 1	Glu Leu Val Ala 5
	(2) INFO	RMATION FOR SEQ ID NO:48:
40	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 5 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant
45	(ii)	MOLECULE TYPE: peptide
-	(iii)	HYPOTHETICAL: NO
50	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:48:

Trp Ser Leu Glu Pro 5 (2) INFORMATION FOR SEQ ID NO:49: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid 10 (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant (ii) MOLECULE TYPE: peptide 15 (iii) HYPOTHETICAL: NO (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens 20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49: Ala Glu Lys Glu Lys Thr 25 1 5 (2) INFORMATION FOR SEQ ID NO:50: (i) SEQUENCE CHARACTERISTICS: 30 (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant 35 (ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO (vi) ORIGINAL SOURCE: 40 (A) ORGANISM: Not relevant (recombinant) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:50: 45 Gly Val Gly Arg Asp Gly (2) INFORMATION FOR SEQ ID NO:51: 50 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant

	(D) TOPOLOGY: not relevant
	(ii) MOLECULE TYPE: peptide
5	(iii) HYPOTHETICAL: NO
	<pre>(vi) ORIGINAL SOURCE:      (A) ORGANISM: Not relevant (recombinant)</pre>
10	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:
15	Gly Gly Glu Arg Glu Gly 1 5
	(2) INFORMATION FOR SEQ ID NO:52:
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 6 amino acids</li><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: not relevant</li><li>(D) TOPOLOGY: not relevant</li></ul>
25	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO
30	<pre>(vi) ORIGINAL SOURCE:      (A) ORGANISM: Not relevant (recombinant)</pre>
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:
	Gly Glu Glu Arg Glu Gly 1 5
40	(2) INFORMATION FOR SEQ ID NO:53:
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 6 amino acids</li><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: not relevant</li></ul>
45	(D) TOPOLOGY: not relevant
	(ii) MOLECULE TYPE: peptide
50	(iii) HYPOTHETICAL: NO
	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>

	(xi) 8	SEQUENCE DESCRIPTION: SEQ ID NO:53:
5	Gly 7	Irp Asp Arg Glu Gly 5
	(2) INFORM	MATION FOR SEQ ID NO:54:
10	(i) £	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 6 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant
15	(ii) N	MOLECULE TYPE: peptide
	(iii) F	HYPOTHETICAL: NO
20	(vi) (	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)
25	(xi) S	SEQUENCE DESCRIPTION: SEQ ID NO:54:
	Gly V 1	Val Gln Arg Glu Gly 5
30		MATION FOR SEQ ID NO:55: SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids
30	(i) <u>s</u>	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 6 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant
	(i) s	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 6 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant
	(i) S (ii) M (iii) F	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 6 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant  MOLECULE TYPE: peptide  HYPOTHETICAL: NO
35	(i) S (ii) M (iii) F	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 6 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant
35	(ii) E (iii) F (vi) C	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 6 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant  MOLECULE TYPE: peptide  HYPOTHETICAL: NO  DRIGINAL SOURCE:
35	(ii) F (iii) F (vi) C	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 6 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant  MOLECULE TYPE: peptide  HYPOTHETICAL: NO  ORIGINAL SOURCE:  (A) ORGANISM: Not relevant (recombinant)
<b>4</b> 0	(ii) s (iii) f (iii) f (vi) c (xi) s Gly c	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 6 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant  MOLECULE TYPE: peptide  HYPOTHETICAL: NO  ORIGINAL SOURCE:  (A) ORGANISM: Not relevant (recombinant)  SEQUENCE DESCRIPTION: SEQ ID NO:55:

	<ul><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: not relevant</li><li>(D) TOPOLOGY: not relevant</li></ul>
5	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO
10	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>
15.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:
	Gly Lys Glu Arg Glu Gly 1 5
20	(2) INFORMATION FOR SEQ ID NO:57:
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 6 amino acids</li><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: not relevant</li></ul>
25	(D) TOPOLOGY: not relevant
	(ii) MOLECULE TYPE: peptide
30	(iii) HYPOTHETICAL: NO
	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:
4.0	Thr Asn Ser Arg Glu Gly 1 5
40	(2) INFORMATION FOR SEQ ID NO:58:
45	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 6 amino acids</li><li>(B) TYPE: amino acid</li></ul>
4.0	(C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant
50	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO
	<pre>(vi) ORIGINAL SOURCE:      (A) ORGANISM: Not relevant (recombinant)</pre>

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:
5	Asp Lys Ser Arg Glu Gly 1 5
	(2) INFORMATION FOR SEQ ID NO:59:
10	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 6 amino acids</li><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: not relevant</li></ul>
15	(D) TOPOLOGY: not relevant
	(ii) MOLECULE TYPE: peptide
20	(iii) HYPOTHETICAL: NO
20	<pre>(vi) ORIGINAL SOURCE:      (A) ORGANISM: Not relevant (recombinant)</pre>
25	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:
30	Gly Glu Asp Arg Lys Gln 1 5
	(2) INFORMATION FOR SEQ ID NO:60:
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 6 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>
4.0	(ii) MOLECULE TYPE: peptide
40	(iii) HYPOTHETICAL: NO
	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>
45	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:
50	Gly Arg Glu Arg Glu Gly 1 5
	(2) INFORMATION FOR SEQ ID NO:61:

5	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 5 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant
	(ii)	MOLECULE TYPE: peptide
10	(iii)	HYPOTHETICAL: NO
	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens
15	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:61:
20	Val 1	Asn Gly Gly Glu 5
20	(2) INFO	RMATION FOR SEQ ID NO:62:
25	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 5 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant
30	(ii)	MOLECULE TYPE: peptide
30	(iii)	HYPOTHETICAL: NO
35	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:62:
40	Val 1	Asn Gly Gly Glu 5
	(2) INFO	RMATION FOR SEQ ID NO:63:
45		SEQUENCE CHARACTERISTICS:  (A) LENGTH: 5 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant
50	(ii)	MOLECULE TYPE: peptide
	(iii)	HYPOTHETICAL: NO

```
(vi) ORIGINAL SOURCE:
                (A) ORGANISM: Not relevant (recombinant)
 5
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:
          Val Asn Gly Gly Val
10
     (2) INFORMATION FOR SEQ ID NO:64:
          (i) SEQUENCE CHARACTERISTICS:
               (A) LENGTH: 5 amino acids
15
               (B) TYPE: amino acid
                (C) STRANDEDNESS: not relevant
                (D) TOPOLOGY: not relevant
         (ii) MOLECULE TYPE: peptide
20
        (iii) HYPOTHETICAL: NO
         (vi) ORIGINAL SOURCE:
                (A) ORGANISM: Not relevant (recombinant)
25
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:
          Val Asn Gly Gly Gln
30
          1
     (2) INFORMATION FOR SEQ ID NO:65:
35
          (i) SEQUENCE CHARACTERISTICS:
                (A) LENGTH: 5 amino acids
                (B) TYPE: amino acid
                (C) STRANDEDNESS: not relevant
                (D) TOPOLOGY: not relevant
40
         (ii) MOLECULE TYPE: peptide
        (iii) HYPOTHETICAL: NO
45
         (vi) ORIGINAL SOURCE:
         (A) ORGANISM: Homo sapiens
50
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:
          Phe Met Val Lys Asp
```

50

5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 5 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>
10	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO
15	<pre>(vi) ORIGINAL SOURCE:      (A) ORGANISM: Not relevant (recombinant)</pre>
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:
20	Tyr Lys Val Arg Ile 1 5
	(2) INFORMATION FOR SEQ ID NO:67:
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 5 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>
30	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO
35	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:
	Phe Arg Val Lys Thr 1 5
45	(2) INFORMATION FOR SEQ ID NO:68:
*	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 5 amino acids</li><li>(B) TYPE: amino acid</li></ul>

(2) INFORMATION FOR SEQ ID NO:66:

(C) STRANDEDNESS: not relevant
(D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: peptide

	(iii)	HYPOTHETICAL: NO
5	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:68:
10	Tyr 1	Arg Val Lys Thr
	(2) INFO	RMATION FOR SEQ ID NO:69:
15	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 5 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant
		(D) TOPOLOGY: not relevant
20	(ii)	MOLECULE TYPE: peptide
	(iii)	HYPOTHETICAL: NO
25	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)
30	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:69:
	Tyr 1	Met Ile Lys Tyr 5
35	(2) INFO	RMATION FOR SEQ ID NO:70:
40	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 5 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant
	(ii)	MOLECULE TYPE: peptide
45	(iii)	HYPOTHETICAL: NO
	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)
50		
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:70:
	ጥረታ	Met Val Isra Thr

-132-

DANIA YA

000 8 11

(2) INFORMATION FOR SEQ ID NO:71: 5 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 5 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant 10 (ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO 15 (vi) ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant) 20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:71: Met Arg Val Arg Thr 5 25 (2) INFORMATION FOR SEQ ID NO:72: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 5 amino acids (B) TYPE: amino acid 30 (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant (ii) MOLECULE TYPE: peptide 35 (iii) HYPOTHETICAL: NO (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:72: Pro Ser Arg Tyr Leu 45 5 - - - - - - -(2) INFORMATION FOR SEQ ID NO:73: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 5 amino acids 50 (B) TYPE: amino acid

(C) STRANDEDNESS: not relevant
(D) TOPOLOGY: not relevant

	(ii)	MOLECULE TYPE: peptide
	(iii)	HYPOTHETICAL: NO
5	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)
10	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:73:
	Thr 1	Pro Tyr Leu Met 5
15	(2) INFO	RMATION FOR SEQ ID NO:74:
20	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 5 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant
	( <u>i</u> i)	MOLECULE TYPE: peptide
25	(iii)	HYPOTHETICAL: NO
	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)
30		
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:74:
35	Tyr 1	Gly Tyr Leu Met 5
	(2) INFO	RMATION FOR SEQ ID NO:75:
40	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 5 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: not relevant
45	(ii)	MOLECULE TYPE: peptide
	(iii)	HYPOTHETICAL: NO
50	(vi)	ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:

Tyr Arg Tyr Arg Met (2) INFORMATION FOR SEQ ID NO:76: 5 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 5 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant 10 (D) TOPOLOGY: not relevant (ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO 15 (vi) ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant) 20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:76: Thr His Tyr Arg Gly 5 25 (2) INFORMATION FOR SEQ ID NO:77: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 5 amino acids 30 (B) TYPE: amino acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant (ii) MOLECULE TYPE: peptide 35 (iii) HYPOTHETICAL: NO (vi) ORIGINAL SOURCE: (A) ORGANISM: Not relevant (recombinant) 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77: 45 Thr His Tyr Arg Met (2) INFORMATION FOR SEQ ID NO:78: 50 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 5 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant

	(D) TOPOLOGY: not relevant
	(ii) MOLECULE TYPE: peptide
5	(iii) HYPOTHETICAL: NO
	<pre>(vi) ORIGINAL SOURCE:      (A) ORGANISM: Not relevant (recombinant)</pre>
10	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:
15	Tyr Lys Tyr Arg Met 1 5
	(2) INFORMATION FOR SEQ ID NO:79:
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 5 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>
25	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO
30	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:  Thr Lys Tyr Arg Gly 1 5
40	(2) INFORMATION FOR SEQ ID NO:80:
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 5 amino acids</li><li>(B) TYPE: amino acid</li></ul>
45	<ul><li>(C) STRANDEDNESS: not relevant</li><li>(D) TOPOLOGY: not relevant</li></ul>
	(ii) MOLECULE TYPE: peptide
50	(iii) HYPOTHETICAL: NO
20	<pre>(vi) ORIGINAL SOURCE:      (A) ORGANISM: Not relevant (recombinant)</pre>

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:
5	Tyr Lys Tyr Arg Leu 1 5
	(2) INFORMATION FOR SEQ ID NO:81:
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 6 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>
15	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO
20	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:
•	Lys Cys Pro Asn Glu Phe 1 5
30	(2) INFORMATION FOR SEQ ID NO:82:  (i) SEQUENCE CHARACTERISTICS:
35	<ul><li>(A) LENGTH: 6 amino acids</li><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: not relevant</li><li>(D) TOPOLOGY: not relevant</li></ul>
	(ii) MOLECULE TYPE: peptide
40	(ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO
40	
45	(iii) HYPOTHETICAL: NO  (vi) ORIGINAL SOURCE:
	(iii) HYPOTHETICAL: NO  (vi) ORIGINAL SOURCE:  (A) ORGANISM: Not relevant (recombinant)
45	<pre>(iii) HYPOTHETICAL: NO  (vi) ORIGINAL SOURCE:</pre>

	<ul><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: not relevant</li><li>(D) TOPOLOGY: not relevant</li></ul>
5	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO
10	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:
	Arg Cys Ser Glu Glu Phe 1 5
20	(2) INFORMATION FOR SEQ ID NO:84:
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 6 amino acids  (B) TYPE: amino acid
25	<ul><li>(C) STRANDEDNESS: not relevant</li><li>(D) TOPOLOGY: not relevant</li></ul>
	(ii) MOLECULE TYPE: peptide
30	(iii) HYPOTHETICAL: NO
	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>
35	(xi) SEQUENCE DESCRIPTION: SEO ID NO:84:
	Lys Cys Pro Lys Glu Met
40	1 5
	(2) INFORMATION FOR SEQ ID NO:85:
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 6 amino acids</li></ul>
45	<ul><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: not relevant</li><li>(D) TOPOLOGY: not relevant</li></ul>
50	(ii) MOLECULE TYPE: peptide
20	(iii) HYPOTHETICAL: NO
	<pre>(vi) ORIGINAL SOURCE:      (A) ORGANISM: Not relevant (recombinant)</pre>

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:  Arg Cys Thr Val Glu Tyr  1 5
10	(2) INFORMATION FOR SEQ ID NO:86:
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 6 amino acids  (B) TYPE: amino acid
15	<ul><li>(C) STRANDEDNESS: not relevant</li><li>(D) TOPOLOGY: not relevant</li></ul>
	(ii) MOLECULE TYPE: peptide
20	(iii) HYPOTHETICAL: NO
	<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Not relevant (recombinant)</pre>
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:
	Arg Cys Thr Val Glu Tyr
30	(2) INFORMATION FOR SEQ ID NO:87:
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 6 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>
40	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO
45	<pre>(vi) ORIGINAL SOURCE:      (A) ORGANISM: Not relevant (recombinant)</pre>
•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:
50	Lys Cys Asn Ser Glu Phe 1 5

(2) INFORMATION FOR SEQ ID NO:88:

5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 6 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>
	(ii) MOLECULE TYPE: peptide
10	(iii) HYPOTHETICAL: NO
,	<pre>(vi) ORIGINAL SOURCE:      (A) ORGANISM: Not relevant (recombinant)</pre>
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:
20	Arg Cys Lys Lys Glu Phe 1 5
	(2) INFORMATION FOR SEQ ID NO:89:
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 5 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>
30	(ii) MOLECULE TYPE: peptide
50	(iii) HYPOTHETICAL: NO
35	<ul><li>(vi) ORIGINAL SOURCE:</li><li>(A) ORGANISM: Homo sapiens</li></ul>
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:
40	Gln Asn Tyr Val Met 1 5
	(2) INFORMATION FOR SEQ ID NO:90:
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 5 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: not relevant</li> <li>(D) TOPOLOGY: not relevant</li> </ul>
50	(ii) MOLECULE TYPE: peptide
	(iii) HYPOTHETICAL: NO

```
(vi) ORIGINAL SOURCE:
                (A) ORGANISM: Not relevant (recombinant)
 5
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:
          Gln Trp Tyr Val Ile
10
     (2) INFORMATION FOR SEQ ID NO:91:
          (i) SEQUENCE CHARACTERISTICS:
                (A) LENGTH: 5 amino acids
15
                (B) TYPE: amino acid
                (C) STRANDEDNESS: not relevant
                (D) TOPOLOGY: not relevant
         (ii) MOLECULE TYPE: peptide
20
        (iii) HYPOTHETICAL: NO
         (vi) ORIGINAL SOURCE:
               (A) ORGANISM: Not relevant (recombinant)
25
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:
30
          Gln His Tyr Val Ile
     (2) INFORMATION FOR SEQ ID NO:92:
35
          (i) SEQUENCE CHARACTERISTICS:
                (A) LENGTH: 52 amino acids
                (B) TYPE: amino acid
                (C) STRANDEDNESS: not relevant
                (D) TOPOLOGY: not relevant
40
         (ii) MOLECULE TYPE: peptide
        (iii) HYPOTHETICAL: NO
45
         (vi) ORIGINAL SOURCE:
               (A) ORGANISM: Homo sapiens
50
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:
     Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
                                          10
```

Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr 20 25 30

Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr 35 40 45

Val Met Ala Ser 50

5